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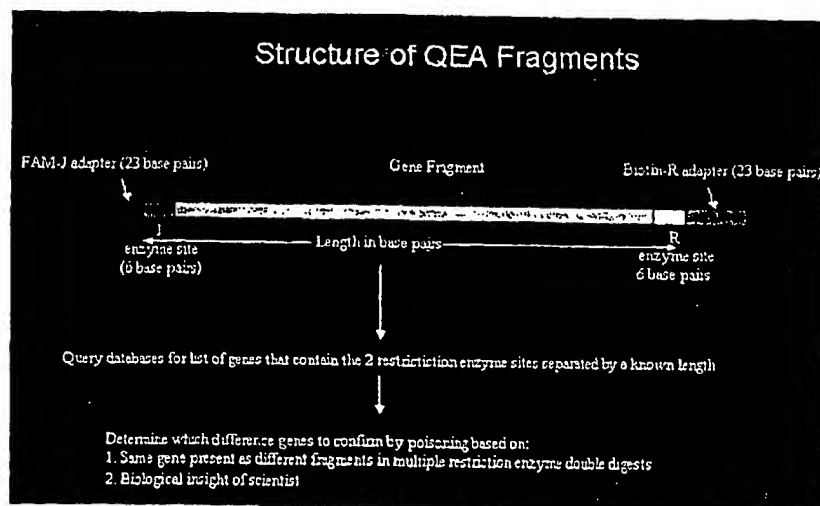
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- (51) International Patent Classification⁷: C12Q 1/68 (71) Applicant (for all designated States except US): CURAGEN CORPORATION [US/US]; 555 Long Wharf Drive, 11th Floor, New Haven, CT 06511 (US).
- (21) International Application Number: PCT/US01/00300
- (22) International Filing Date: 5 January 2001 (05.01.2001) (72) Inventors; and
- (25) Filing Language: English (75) Inventors/Applicants (for US only): BADER, Joel, S. [US/FR]; 80, rue Boissière, F-75116 Paris (FR). GOLD, Steven [US/US]; 36 Whitting Farm Road, Branford, CT 06405 (US). GUSEV, Vladimir [UA/US]; 1209 Durham Road, Madison, CT 06443 (US). LI, Shu, Xia [CN/US]; 15 Sunset Circle, Woodbridge, CT 06502 (US). SHENOY, Suresh [IN/US]; 15 Milwood Drive, Branford, CT 06405 (US). CRASTA, Oswald, R. [IN/US]; 95-2c Florence Road, Branford, CT 06511 (US). BOUFFORD, Pascal [CA/US]; 27 Crowes Nest Lane, Apt. 20B, Danbury, CT 06810 (US).
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- (74) Agent: ELRIFI, Ivor, R.; Mintz, Levin, Cohn, Ferris, Glovsky, and Popeo, P.C., One Financial Center, Boston, MA 02111 (US).

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(54) Title: METHOD OF ANALYZING A NUCLEIC ACID



Structure of QEA fragments. The FAM labeled J adapter (23 base pairs long) and biotin labeled R region (23 base pairs long) are oriented to the gene fragment as shown. The J enzyme site and R enzyme site are the restriction sites for their respective adapters (6 bp long). The larger central region plus the 2 restriction enzyme sites originate from a targeted nucleic acid sequence.

(57) Abstract: Disclosed are methods of selectively analyzing a nucleic acid in a sample. The methods allow for selective identification of a target sequence in a population of nucleic acids. For example, the methods allow for confirmation of the identity of a nucleic acid tentatively identified in a quantitative expression analysis (QEA) assay.

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, MEDLINE, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 07896 A (ROTHBERG JONATHAN M ;CURAGEN CORP (US); DEEM MICHAEL W (US); SIMPS) 18 February 1999 (1999-02-18) cited in the application claims 1-14; figures 1-6 ---	1-16
A	SHIMKETS R A ET AL: "Gene expression analysis by transcript profiling coupled to a gene database query" NATURE BIOTECHNOLOGY, NATURE PUBLISHING, US, vol. 17, August 1999 (1999-08), pages 798-803, XP002130008 ISSN: 1087-0156 figures 1,4 --- -/--	1-16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 5 891 625 A (NIELSEN PETER EIGIL ET AL) 6 April 1999 (1999-04-06) claims 1-26; figure 6 ---	1-16
A	EP 0 333 465 A (BAYLOR COLLEGE MEDICINE) 20 September 1989 (1989-09-20) examples 1-4 -----	1-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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